

IMPROVED ULTRASONIC CLEANING DEVICE

ABSTRACT OF THE DISCLOSURE

A cleaning device for cleaning an object includes an inner vessel configured to
5 contain a first liquid and the object. The cleaning device also includes an external
vessel configured to contain a second liquid and the inner vessel. The second liquid
is acoustically coupled to the first liquid. At least one transducer is acoustically
coupled to the external vessel and configured to generate acoustical energy which is
transferred to the object through the external vessel, a second liquid, the inner vessel
10 and the first liquid. The first liquid has a dissolved gas concentration of a first gas
and the second liquid has a dissolved gas concentration of a second gas.